

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2089</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2089 Stark</b>	<b>U</b>	<b>2.90</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.20	1.30	6.40	220.69%				
Trim / Thin Trees	0.28	0.14	0.84	28.97%				
Encroachments	0.07	0.01	0.11	3.79%	0.42	0.05		
Animal Control	0.09	0.06	0.33	11.38%				
Crown Surface / Depressions / Rutting	0.05		0.05	1.72%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01	0.02	0.09	3.10%				
<i>LMA Totals:</i>	1.70	1.53	7.82	269.66%	0.42	0.05	0.00	0.00

<b>Unit No. 01 Old River RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2089</b>	<b>U</b>	<b>1.53</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.51	1.25	5.51	360.13%				
Trim / Thin Trees	0.13	0.11	0.57	37.25%				
Encroachments	0.04	0.01	0.08	5.23%	0.39			
Animal Control	0.04		0.04	2.61%				
Crown Surface / Depressions / Rutting	0.04		0.04	2.61%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01	0.01	0.05	3.27%				
<i>Unit Totals:</i>	0.77	1.38	6.29	411.11%	0.39	0.00	0.00	0.00

<b>Unit No. 02 Salmon Slough RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2089</b>	<b>U</b>	<b>1.37</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.69	0.05	0.89	64.96%				
Trim / Thin Trees	0.15	0.03	0.27	19.71%				
Encroachments	0.03		0.03	2.19%	0.03	0.05		
Animal Control	0.05	0.06	0.29	21.17%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.73%				
<i>Supplemental</i>								
DWR Erosion Survey		0.01	0.04	2.92%				
<i>Unit Totals:</i>	0.93	0.15	1.53	111.68%	0.03	0.05	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

Waterway			Bank	Unit Miles
Unit No. 01 Old River			Right	1.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/24/2012 - 05/24/2012		11/14/2012 - 11/14/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By			Mario Jaques RD 2089 Sark Tract	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River						Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		°	°	15
DWR ID: DWR_RD2089_01_s_2012_15										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	34
DWR ID: DWR_RD2089_01_s_2012_34										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	38
DWR ID: DWR_RD2089_01_s_2012_38										
4	0.00	0.39	Earthen Levee	Encroachments	LS	M En	DT : Ditch Inspector Comments: 05/24/2011 Photo added of Ag ditch.	37.811681 ° -121.384930 °	37.809755 ° -121.391520 °	9 Y
DWR ID: DWR_RD2089_01_s_2012_9										
5	0.03	0.27	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Excessive vegetation on landside slope.	37.811487 ° -121.385479 °	37.810322 ° -121.389407 °	5 Y
DWR ID: DWR_RD2089_01_s_2012_5										
6	0.04	0.04	Earthen Levee	Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010 inspection photo attached.	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	3 Y
DWR ID: DWR_RD2089_01_s_2012_3										
7	0.04	0.04	Earthen Levee	Encroachments	LS	A/W Ma	PI : Pipe Inspector Comments: Drainage pump	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	7 Y
DWR ID: DWR_RD2089_01_s_2012_7										
8	0.04	0.04	Earthen Levee	Encroachments	LS	M Ma	ST : Stairway Inspector Comments: Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.	37.811474 ° -121.385573 °	37.811474 ° -121.385573 °	1 Y
DWR ID: DWR_RD2089_01_s_2012_1										
9	0.10	0.10	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Two scrub oaks obstruct access to levee slope. 05/24/2011 Issue has not changed since Fall 2010 inspection, photo attached	37.811272 ° -121.386703 °	37.811272 ° -121.386703 °	935 Y
DWR ID: DWR_RD2089_01_s_2012_935										
10	0.18	0.18	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Trees are blocking visibility and access.	37.810802 ° -121.387969 °	37.810802 ° -121.387969 °	2 Y
DWR ID: DWR_RD2089_01_s_2012_2										
11	0.18	0.18	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.810668 ° -121.387892 °	37.810668 ° -121.387892 °	39 Y
DWR ID: DWR_RD2089_01_f_2012_39										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
12	0.23	0.23	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010. 11/10/2011 Trees have been limbed up, but needs to be limbed up further to provide full access and visibility.	37.810532 ° -121.388823 °	37.810532 ° -121.388823 °	938 Y
DWR ID: DWR_RD2089_01_s_2012_938										
13	0.24	0.24	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: Stump greater than 2" on landside crown.	37.810499 ° -121.388884 °	37.810499 ° -121.388884 °	6 Y
DWR ID: DWR_RD2089_01_s_2012_6										
14	0.24	0.24	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo remains as an obstruction despite last years burning. 05/24/2011 Bamboo still remains, updated photo attached. 11/10/2011 Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed. This plant was improperly identified as bamboo in previous inspections.	37.810488 ° -121.389018 °	37.810488 ° -121.389018 °	940 Y
DWR ID: DWR_RD2089_01_s_2012_940										
15	0.26	0.26	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: Stump in levee crown.	37.810376 ° -121.389290 °	37.810376 ° -121.389290 °	8 Y
DWR ID: DWR_RD2089_01_s_2012_8										
16	0.26	0.26	Earthen Levee	Trim / Thin Trees	LS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Tree needs to be trimmed up to 5' to allow visibility and access during floodfight.	37.810346 ° -121.389319 °	37.810346 ° -121.389319 °	11 Y
DWR ID: DWR_RD2089_01_s_2012_11										
17	0.27	0.39	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Access and visibility completely blocked. 11/10/2011 issue has not changed.	37.810319 ° -121.389510 °	37.809740 ° -121.391645 °	12 Y
DWR ID: DWR_RD2089_01_s_2012_12										
18	0.29	0.34	Earthen Levee	Trim / Thin Trees	LS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trees mixed with thick vegetation, trees need to be trimmed to 12' above roadway and to 5' elsewhere to permit access for flood fighting an visibility.	37.810219 ° -121.389805 °	37.809978 ° -121.390704 °	17 Y
DWR ID: DWR_RD2089_01_s_2012_17										

**\* Location**

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WS : Water Side  
CR : Crown

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A : Acceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

19	0.30	0.31	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: Site appears to have been repaired by placing shot rock along the entire slope as revetment. Seasonal grasses growing over the placed revetment. Emergent vegetation at the lower slope that could possibly be covering the vertical scarp that was previously observed. It is recommended that another inspection be conducted to verify status of site. It was previously rated "U". 08/06/2010: Recommended as local maintenance issue, per CLRO. 09/28/2009: Rock revetment placed on the upper slope; however, vertical scarp still exists; site is recommended for annual assessment and monitoring of erosion site, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.95, LM0.22; previously rated "M". 11/05/2008: Pocket erosion with vertical scarp; loss of rip rap; mild vegetation growth since previous survey. 10/20/2006: Site visited on 10/20/2006. [2012 Site ID:RD2089U01RM29.95]	37.810050 ° -121.390260 °	37.810050 ° -121.390260 °	4
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DWR ID:

20	0.34	0.34	Earthen Levee	Vegetation	LS	U	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo completely blocks access and visibility. 11/10/2011 Arundo has been trimmed back from the roadway, but still completely blocks access and visibility to the landside slope. This plant was improperly identified as bamboo in previous inspections.	37.809978 ° -121.390704 °	37.809978 ° -121.390704 °	19 Y
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DWR ID: DWR\_RD2089\_01\_s\_2012\_19

21	0.38	0.38	Earthen Levee	Trim / Thin Trees	LS	U	T1 : Trim trees to at least five feet above ground level.	37.809865 ° -121.391303 °	37.809865 ° -121.391303 °	946 Y
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DWR ID: DWR\_RD2089\_01\_s\_2012\_946

22	0.39	0.39	Earthen Levee	Trim / Thin Trees	LS	M	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.809788 ° -121.391490 °	37.809788 ° -121.391490 °	26 Y
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DWR ID: DWR\_RD2089\_01\_s\_2012\_26

23	0.42	0.48	Earthen Levee	Trim / Thin Trees	LS	U	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees need to be trimmed to allow visibility and 12 feet over roadway. Too thick to allow access and visibility.	37.809643 ° -121.391869 °	37.809507 ° -121.392907 °	27 Y
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DWR ID: DWR\_RD2089\_01\_s\_2012\_27

24	0.42	0.48	Earthen Levee	Vegetation	LS	U	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation is too thick to allow access and visibility.	37.809593 ° -121.391963 °	37.809507 ° -121.392907 °	28 Y
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DWR ID: DWR\_RD2089\_01\_s\_2012\_28

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
25	0.45	0.45	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused certain impact on the levee. [2012 Site ID:RD2089U01RM29.8]	37.809394 ° -121.392791 °	37.809394 ° -121.392791 °	50 Y
DWR ID: DWR_RD2089_01_s_2012_10										
26	0.47	0.47	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma		37.809494 ° -121.392787 °	37.809494 ° -121.392787 °	10 Y
DWR ID: DWR_RD2089_01_s_2012_10										
27	0.50	0.50	Earthen Levee	Trim / Thin Trees	WS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees need to be thinned, too dense to allow access in a flood fight situation. Woody vegetation has been sprayed, but needs to be removed to allow visibility and access.	37.809666 ° -121.393210 °	37.809666 ° -121.393210 °	29 Y
DWR ID: DWR_RD2089_01_s_2012_29										
28	0.50	0.50	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead growth is too thick to allow access during flood fight situation and completely obstructs visibility of the landside toe.	37.809665 ° -121.393219 °	37.809665 ° -121.393219 °	30 Y
DWR ID: DWR_RD2089_01_s_2012_30										
29	0.56	0.56	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Minor depressions will cause ponding.	37.810087 ° -121.394200 °	37.810087 ° -121.394200 °	14 Y
DWR ID: DWR_RD2089_01_s_2012_14										
30	0.60	0.60	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue remains unchanged since Fall 2010, photo attached	37.810230 ° -121.394967 °	37.810230 ° -121.394967 °	950 Y
DWR ID: DWR_RD2089_01_s_2012_950										
31	0.64	1.53	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Waterside vegetation is too thick to allow access and visibility.	37.810048 ° -121.395762 °	37.806534 ° -121.407531 °	18 Y
DWR ID: DWR_RD2089_01_s_2012_18										
32	0.64	0.64	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.810130 ° -121.395732 °	37.810130 ° -121.395732 °	951 Y
DWR ID: DWR_RD2089_01_f_2012_951										

**\* Location**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

# Reclamation District No. 2089 Stark

DWR ID: DWR\_RD2089\_01 s 2012 36



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River				Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
39	0.88	0.88	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: 11/10/2011 Tree needs to be trimmed up 5' to allow visibility of the landside slope and toe.	37.807502 ° -121.397781 °	37.807502 ° -121.397781 °	22 Y
DWR ID: DWR_RD2089_01_s_2012_22										
40	0.96	0.96	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Large arundo on waterside prevents visibility and access to waterside slope.	37.806397 ° -121.397758 °	37.806397 ° -121.397758 °	33 Y
DWR ID: DWR_RD2089_01_s_2012_33										
41	0.97	0.97	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.806347 ° -121.397861 °	37.806347 ° -121.397861 °	37 Y
DWR ID: DWR_RD2089_01_s_2012_37										
42	0.98	0.98	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Vegetation prevents access and visibility of the landside toe.	37.806266 ° -121.397960 °	37.806266 ° -121.397961 °	41 Y
DWR ID: DWR_RD2089_01_s_2012_41										
43	0.98	1.07	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Thick vegetation blocks viability and access to top 20' of waterside slope.	37.806264 ° -121.397961 °	37.805885 ° -121.399726 °	35 Y
DWR ID: DWR_RD2089_01_s_2012_35										
44	0.98	0.98	Earthen Levee	Encroachments	WS	M Ma	MA : Material Inspector Comments: Powerline wire must be removed from waterside slope.	37.806265 ° -121.398012 °	37.806265 ° -121.398012 °	65 Y
DWR ID: DWR_RD2089_01_s_2012_65										
45	1.04	1.06	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and tobacco block visibility.	37.806063 ° -121.398930 °	37.805967 ° -121.399348 °	956 Y
DWR ID: DWR_RD2089_01_s_2012_956										
46	1.10	1.10	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Brush blocks access.	37.805848 ° -121.400003 °	37.805848 ° -121.400003 °	957 Y
DWR ID: DWR_RD2089_01_s_2012_957										
47	1.16	1.16	Earthen Levee	Encroachments	LS	M Ma	PI : Pipe Inspector Comments: 11/10/2011 Two pieces of DI pipe need to be removed. Creates a possible obstruction to access during a floodfight.	37.805631 ° -121.401142 °	37.805631 ° -121.401142 °	42 Y
DWR ID: DWR_RD2089_01_s_2012_42										
48	1.16	1.16	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma		37.805623 ° -121.401207 °	37.805623 ° -121.401207 °	21 Y
DWR ID: DWR_RD2089_01_s_2012_21										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River				Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
49	1.22	1.22	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo within top 20' of waterside levee slope.	37.805663 ° -121.402151 °	37.805663 ° -121.402151 °	25 Y
DWR ID: DWR_RD2089_01_s_2012_25										
50	1.25	1.25	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.	37.805735 ° -121.402614 °	37.805735 ° -121.402614 °	43 Y
DWR ID: DWR_RD2089_01_s_2012_43										
51	1.26	1.26	Earthen Levee	Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Improvements made, however trees remain obstructive. Updated photo 05/24/2011.	37.805770 ° -121.402790 °	37.805770 ° -121.402790 °	16 Y
DWR ID: DWR_RD2089_01_s_2012_16										
52	1.26	1.26	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression in roadway needs to be filled.	37.805801 ° -121.402913 °	37.805801 ° -121.402913 °	44 Y
DWR ID: DWR_RD2089_01_s_2012_44										
53	1.38	1.38	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.	37.806128 ° -121.404890 °	37.806128 ° -121.404890 °	45 Y
DWR ID: DWR_RD2089_01_s_2012_45										
54	1.43	1.43	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 11/10/2011 No rodents visible, but active burrows are present.	37.806268 ° -121.405874 °	37.806268 ° -121.405874 °	47 Y
DWR ID: DWR_RD2089_01_s_2012_47										
55	1.43	1.43	Earthen Levee	Encroachments	LS	M Ma	TR : Tree or limb Inspector Comments: 11/10/2011 Downed tree at levee toe prevents access to levee from landside.	37.806266 ° -121.405876 °	37.806266 ° -121.405876 °	46 Y
DWR ID: DWR_RD2089_01_s_2012_46										
56	1.45	1.45	Earthen Levee	Encroachments	CR	U Ma	PI : Pipe Inspector Comments: 11/10/2011 6" PVC pipe has been placed through the crown of the levee. PVC is not allowed, pipe is cut into the landside slope, encroachment is not permitted.	37.806312 ° -121.406148 °	37.806312 ° -121.406148 °	48 Y
DWR ID: DWR_RD2089_01_s_2012_48										
57	1.46	1.46	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma		37.806396 ° -121.406348 °	37.806396 ° -121.406348 °	40 Y
DWR ID: DWR_RD2089_01_s_2012_40										
58	1.47	1.47	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Deep burrow on waterside needs to be filled.	37.806383 ° -121.406599 °	37.806383 ° -121.406599 °	49 Y
DWR ID: DWR_RD2089_01_s_2012_49										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Ditch flows parallel with the utility line shown in the photo.

mkhashch\_f\_20120927\_225.jpg



Levee Mile Report Line	5
Start Levee Mile	0.03
End Levee Mile	0.27
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Landside vegetation obstructs visibility of the slope and toe.

mkhashch\_f\_20120927\_221.jpg



Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of unacceptable vegetation control on landside slope. Tree is still not trimmed up and obstructing visibility and access.

mkhashch\_f\_20121119\_774.JPG



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	7
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Waterside of drainage discharge to Old River.

mkhashch\_f\_20120927\_223.jpg



Levee Mile Report Line	8
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Steps are hard to discern in the photo, the top two steps are casting the two shadows located between the post and the photographer's shadow.

mkhashch\_f\_20120927\_212.jpg



Levee Mile Report Line	8
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of steps in the landside slope just behind the post. 05/24/2012

mkhashch\_f\_20120927\_213.jpg



**\* Location**

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CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	9
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue remains unchanged since noted in the Fall 2010 inspection.	
mkhashch_f_20120927_277.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Both trees shown need to be trimmed up 5' to allow visibility of landside slope.	
mkhashch_f_20120927_214.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of rodent activity on landside slope.	
mkhashch_f_20121119_775.JPG	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree was also noted in the Fall 20110 inspection.	
mkhashch_f_20120927_278.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
11/10/2011 Tree has been limbed up, but still needs to be cleared around the bottom to permit access to the slope in the event of a flood fight.	
mkhashch_f_20120927_279.jpg	



Levee Mile Report Line	13
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Stump shown in center of photo.	
mkhashch_f_20120927_222.jpg	

**\* Location**

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WS : Water Side  
CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	14
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Arundo has been sprayed. However, vegetation on the landside slope must be cleared to 15' beyond the toe.

mkhashch\_f\_20121119\_776.JPG



Levee Mile Report Line	15
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Stump is located in center of photo.

mkhashch\_f\_20120927\_224.jpg



Levee Mile Report Line	16
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Tree obstructs visibility and access to slope, needs to be limbed up to 5'.

mkhashch\_f\_20120927\_227.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	17
Start Levee Mile	0.27
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Thick brush and wild rose completely block access and visibility of landside slope and toe.

mkhashch\_f\_20120927\_228.jpg



Levee Mile Report Line	18
Start Levee Mile	0.29
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Numerous trees and thick vegetation in area, trees are trimmed to 12' above roadway but not 5' on landside slope and toe to allow access and visibility.

mkhashch\_f\_20121119\_777.JPG



Levee Mile Report Line	20
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Arundo has been trimmed back from the road, but needs to be removed to so that it does not obstruct visibility and access to the landside toe.

mkhashch\_f\_20121119\_778.JPG



**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	21
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees on levee slope obstruct access and visibility.	
mkhashch_f_20120927_284.jpg	



Levee Mile Report Line	22
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree needs to be trimmed up 5' to allow access and visibility to landside slope.	
mkhashch_f_20120927_242.jpg	



Levee Mile Report Line	23
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Trees need to be trimmed to 12' over roadway and up 5' on levee slope to allow access and visibility.	
mkhashch_f_20120927_243.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2012

### Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	24
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

mkhashch\_f\_20120927\_244.jpg



Levee Mile Report Line	25
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2012\_RD2089U01RM29.8\_1.jpg



Levee Mile Report Line	26
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe at LM 0.46.

mkhashch\_f\_20120927\_226.jpg



**\* Location**

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**+ Issue Type**

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Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	27
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Trees on waterside need to be thinned to allow access and visibility of top 20' of waterside slope.	
mkhashch_f_20120927_245.jpg	



Levee Mile Report Line	27
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
11/10/2011 Woody vegetation needs to be cleared off of the upper 20' of the waterside slope.	
mkhashch_f_20120927_246.jpg	



Levee Mile Report Line	28
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Land Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Dead brush is too thick to allow access and visibility of landside slope and toe.	
mkhashch_f_20120927_247.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	29
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Depressions in crown.	
mkhashch_f_20120927_230.jpg	



Levee Mile Report Line	30
Start Levee Mile	0.60
End Levee Mile	0.60
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue was also noted in Fall 2010 inspection.	
mkhashch_f_20120927_285.jpg	



Levee Mile Report Line	31
Start Levee Mile	0.64
End Levee Mile	1.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Vegetation needs to be cleared on the upper 20' of the waterside slope.	
mkhashch_f_20120927_235.jpg	

**\* Location**

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CR : Crown

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**+ Issue Type**

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Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2012

### Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	33
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. The scarp is visible on the slope.

SJR2012\_RD2089U01RM29.61\_1.jpg



Levee Mile Report Line	34
Start Levee Mile	0.67
End Levee Mile	0.68
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Vegetation is mostly dead but needs to be removed to allow access and visibility of slope and toe.

mkhashch\_f\_20120927\_248.jpg



Levee Mile Report Line	35
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Water Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Two active burrows shown in photo.

mkhashch\_f\_20120927\_249.jpg



**\* Location**

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CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	36
Start Levee Mile	0.73
End Levee Mile	0.77
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Vegetation obstructs visibility of slope and toe.

mkhashch\_f\_20120927\_238.jpg



Levee Mile Report Line	37
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe on levee slope.

mkhashch\_f\_20120927\_229.jpg



Levee Mile Report Line	38
Start Levee Mile	0.85
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of tall weeds and brush obstructing visibility on waterside slope. 05/24/2012

mkhashch\_f\_20120927\_252.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	39
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Tree appears to have been sprayed, needs to be limbed up 5' to allow for visibility of slope and toe.

mkhashch\_f\_20120927\_240.jpg



Levee Mile Report Line	40
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Arundo on upper 20' of waterside slope.

mkhashch\_f\_20120927\_250.jpg



Levee Mile Report Line	41
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Tree needs to be trimmed up 5'.

mkhashch\_f\_20120927\_253.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**+ Issue Type**

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Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	42
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Vegetation obstructs visibility of the slope and toe.	
mkhashch_f_20120927_255.jpg	



Levee Mile Report Line	43
Start Levee Mile	0.98
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Thick vegetation on upper 20; of waterside slope.	
mkhashch_f_20120927_251.jpg	



Levee Mile Report Line	44
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of powerline wire on waterside slope. 05/24/2012	
mkhashch_f_20120927_276.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	47
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments

11/10/2011 Section of ductilie iron pipe that sppears to be left from a pipe repair. Needs to be removed.

mkhashch\_f\_20120927\_256.jpg



Levee Mile Report Line	48
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Drainage discharge into Old River.

mkhashch\_f\_20120927\_239.jpg



Levee Mile Report Line	49
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Bamboo on waterside levee slope obstructs access and visibility.

mkhashch\_f\_20120927\_241.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	50
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

11/10/2011 Depression in roadway.

mkhashch\_f\_20120927\_257.jpg



Levee Mile Report Line	51
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees on levee slope obstruct access and visibility.

mkhashch\_f\_20120927\_231.jpg



Levee Mile Report Line	51
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees have been trimmed since Fall 2010 inspection, however they still need to be trimmed up 5' to allow visibility of slope and access in a flood fight.

mkhashch\_f\_20120927\_232.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	52
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Roadway depression.	
mkhashch_f_20120927_258.jpg	



Levee Mile Report Line	53
Start Levee Mile	1.38
End Levee Mile	1.38
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Roadway depression.	
mkhashch_f_20120927_259.jpg	



Levee Mile Report Line	54
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Animal Control
11/10/2011 Active rodent burrow on landside slope.	
mkhashch_f_20120927_261.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	55
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments
11/10/2011 Downed tree at toe needs to be removed.	
mkhashch_f_20120927_260.jpg	



Levee Mile Report Line	56
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	Earthen Levee
Item	Encroachments
11/10/2011 Broken PVC pipe on waterside.	
mkhashch_f_20120927_262.jpg	



Levee Mile Report Line	56
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	Earthen Levee
Item	Encroachments
11/10/2011 PVC pipe on landside slope. Pipe needs to be removed.	
mkhashch_f_20120927_263.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	57
Start Levee Mile	1.46
End Levee Mile	1.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 pipe through levee, not previously noted in inspection.

mkhashch\_f\_20120927\_254.jpg



Levee Mile Report Line	58
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Water Side
Category	Earthen Levee
Item	Animal Control

11/10/2011 Deep burrow on waterside.

mkhashch\_f\_20120927\_264.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

Waterway			Bank	Unit Miles
Unit No. 02 Salmon Slough			Right	1.37
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/24/2012 - 05/24/2012		11/14/2012 - 11/14/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By			Mario Jaques	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough				Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.39	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation on the levee slope and toe are partially obstructive.	37.806543 ° -121.407549 °	37.810094 ° -121.412438 °	19
DWR ID: DWR_RD2089_02_s_2012_19										
2	0.06	0.06	Earthen Levee	Trim / Thin Trees	LS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Two large oaks with hanging limbs over levee. Downed limb. 05/24/2011 photo added.	37.807108 ° -121.408488 °	37.807108 ° -121.408488 °	3 Y
DWR ID: DWR_RD2089_02_s_2012_3										
3	0.08	0.08	Earthen Levee	Vegetation	WS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Thick brush may include some elderberries. 05/24/2011 updated photo.	37.807375 ° -121.408605 °	37.807375 ° -121.408605 °	4 Y
DWR ID: DWR_RD2089_02_s_2012_4										
4	0.28	0.28	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Ground squirrel sighted and active borrowing in area.	37.809717 ° -121.410511 °	37.809717 ° -121.410511 °	24 Y
DWR ID: DWR_RD2089_02_s_2012_24										
5	0.37	0.37	Earthen Levee	Encroachments	CR	M En	FE : Fence Inspector Comments: Gates across levee.	37.810106 ° -121.412133 °	37.810106 ° -121.412133 °	2 Y
DWR ID: DWR_RD2089_02_s_2012_2										
6	0.38	0.38	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired.	37.810125 ° -121.412317 °	37.810125 ° -121.412317 °	26 Y
DWR ID: DWR_RD2089_02_s_2012_26										
7	0.40	0.66	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tobacco leaf and other brush block access and visibility.	37.810109 ° -121.412619 °	37.812395 ° -121.415813 °	8 Y
DWR ID: DWR_RD2089_02_s_2012_8										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
8	0.42	0.43	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlaying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots. 08/05/2010: Recommended for repair, per CLRO. 09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey. 11/05/2008: Cut into levee profile; riprapp slide; rodent holes; pictures do not match GPS and current condition. [2012 Site ID:RD2089U02RM28.35]	37.809960 ° -121.413200 °	37.809960 ° -121.413200 °	1 Y
DWR ID: DWR_RD2089_02_s_2012_27										
9	0.46	0.46	Earthen Levee	Encroachments	WS	M En	BU : Building Inspector Comments: Portable toilet on bank, at water's edge.	37.810490 ° -121.413638 °	37.810490 ° -121.413638 °	27 Y
DWR ID: DWR_RD2089_02_s_2012_27										
10	0.49	0.49	Earthen Levee	Animal Control	CR	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Two old burrows that need to be filled.	37.810691 ° -121.414014 °	37.810691 ° -121.414014 °	13 Y
DWR ID: DWR_RD2089_02_s_2012_13										
11	0.49	0.49	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: Surface depression needs to be filled.	37.810714 ° -121.414057 °	37.810714 ° -121.414057 °	10 Y
DWR ID: DWR_RD2089_02_s_2012_10										
12	0.54	0.54	Earthen Levee	Animal Control	WS	U Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: 11/10/2011 Repair damage to slope caused by livestock.	37.811150 ° -121.414748 °	37.811150 ° -121.414748 °	14 Y
DWR ID: DWR_RD2089_02_s_2012_14										
13	0.56	0.56	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake	37.811366 ° -121.415064 °	37.811366 ° -121.415064 °	12 Y
DWR ID: DWR_RD2089_02_s_2012_12										
14	0.70	0.70	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.812822 ° -121.415098 °	37.812822 ° -121.415098 °	50 Y
DWR ID: DWR_RD2089_02_s_2012_50										
15	0.82	0.82	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.814544 ° -121.414276 °	37.814544 ° -121.414276 °	37 Y
DWR ID: DWR_RD2089_02_s_2012_37										

**\* Location**

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WS : Water Side  
CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway							Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Salmon Slough							Right	1.37	11/14/2012 11/14/2012		Maksim Khashchuk
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End	Photo	
16	0.82	0.86	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight.	37.814421 ° -121.414203 °	37.814913 ° -121.414594 °	36 Y	
DWR ID: DWR_RD2089_02_s_2012_36											
17	0.85	0.85	Earthen Levee	Animal Control	WS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Livestock have worn paths into levee slope.	37.814773 ° -121.414555 °	37.814773 ° -121.414555 °	21	
DWR ID: DWR_RD2089_02_s_2012_21											
18	0.85	0.85	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present.	37.814844 ° -121.414566 °	37.814844 ° -121.414566 °	38	
DWR ID: DWR_RD2089_02_s_2012_38											
19	0.86	0.86	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and blackberry on levee slope.	37.814906 ° -121.414745 °	37.814906 ° -121.414745 °	25	
DWR ID: DWR_RD2089_02_s_2012_25											
20	0.86	0.86	Earthen Levee	Encroachments	CR	M En	FE : Fence Inspector Comments: Gate across levee crown.	37.814881 ° -121.414676 °	37.814881 ° -121.414676 °	9	
DWR ID: DWR_RD2089_02_s_2012_9											
21	0.87	0.92	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and land side ramp.	37.814997 ° -121.414774 °	37.814970 ° -121.415767 °	40 Y	
DWR ID: DWR_RD2089_02_s_2012_40											
22	0.95	0.95	Earthen Levee	Encroachments	WS	M Ma	PI : Pipe Inspector Comments: Debris/CMP on levee slope needsto be removed.	37.814940 ° -121.416499 °	37.814940 ° -121.416499 °	41 Y	
DWR ID: DWR_RD2089_02_s_2012_41											
23	0.99	0.99	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	37.814990 ° -121.416999 °	37.814990 ° -121.416999 °	28 Y	
DWR ID: DWR_RD2089_02_s_2012_28											
24	1.02	1.14	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.815160 ° -121.417474 °	37.816499 ° -121.418824 °	42	
DWR ID: DWR_RD2089_02_s_2012_42											
25	1.07	1.07	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: 14" dia stump. Could not verify overgrown with high weeds.	37.815629 ° -121.418133 °	37.815629 ° -121.418133 °	29 Y	
DWR ID: DWR_RD2089_02_s_2012_29											
26	1.10	1.10	Earthen Levee	Encroachments	WS	M Ma	DE : Debris Inspector Comments: Water tanks disposed of on levee are obstructive.	37.816100 ° -121.418487 °	37.816100 ° -121.418487 °	17 Y	
DWR ID: DWR_RD2089_02_s_2012_17											

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough						Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
27	1.15	1.15	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.816487 ° -121.418948 °	37.816487 ° -121.418948 °	30
DWR ID: DWR_RD2089_02_s_2012_30										
28	1.26	1.26	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.818051 ° -121.419743 °	37.818051 ° -121.419743 °	31
DWR ID: DWR_RD2089_02_s_2012_31										
29	1.28	1.33	Earthen Levee	Encroachments	LS	U En	BU : Building Inspector Comments: Buildings and equipment encroach within 10-ft of landside toe. The boat was removed.	37.818277 ° -121.419725 °	37.819040 ° -121.419760 °	23 Y
DWR ID: DWR_RD2089_02_s_2012_23										
30	1.30	1.33	Earthen Levee	Trim / Thin Trees	WS	U Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Low hanging trees over crown road.	37.818607 ° -121.419660 °	37.818968 ° -121.419743 °	43 Y
DWR ID: DWR_RD2089_02_s_2012_43										
31	1.32	1.32	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.818829 ° -121.419776 °	37.818829 ° -121.419776 °	32
DWR ID: DWR_RD2089_02_s_2012_32										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2012

### Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	2
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Issue noted in Fall 2010 inspection. Downed limb is visible beneath the overhanging limbs.

mkhashch\_f\_20120927\_290.jpg



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Fall 2009 photo of unacceptable vegetation on levee slope.

mkhashch\_f\_20120927\_291.jpg



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Updated photo of issue noted in Fall 2010 inspection.

mkhashch\_f\_20120927\_292.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.28
End Levee Mile	0.28
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Active burrows, ground squirrel sighted in area.	
mkhashch_f_20120927_302.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.37
End Levee Mile	0.37
Location	Crown
Category	Earthen Levee
Item	Encroachments
View of gate across levee crown.	
mkhashch_f_20121119_779.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Active rodent burrow.	
mkhashch_f_20120927_303.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Fall 2009 photo: brush on landside toe limits visibility and accessibility.	
mkhashch_f_20120927_293.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Brush on landside slope limits access.	
mkhashch_f_20120927_294.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Close view of the site	
SJR2012_RD2089U02RM28.35_1.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	9
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Portable toilet is in the shadows in the center of the photo at the water's edge.

mkhashch\_f\_20120927\_304.jpg



Levee Mile Report Line	10
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Animal Control

11/10/2011 Two large burrows on crown, need to be filled.

mkhashch\_f\_20120927\_297.jpg



Levee Mile Report Line	11
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

11/10/2011 Depression in crown needs to be filled.

mkhashch\_f\_20120927\_295.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Water Side
Category	Earthen Levee
Item	Animal Control

11/10/2011 Approximately 1' scarp has been created by livestock travel.

mkhashch\_f\_20120927\_298.jpg



Levee Mile Report Line	13
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe at waterside slope.

mkhashch\_f\_20120927\_296.jpg



Levee Mile Report Line	14
Start Levee Mile	0.70
End Levee Mile	0.70
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of low hanging branches over waterside slope and crown. 05/24/2012

mkhashch\_f\_20120927\_314.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	15
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees need to be trimmed up 12' over road.

mkhashch\_f\_20120927\_308.jpg



Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Extremely thick dead brush prevents access and visibility.

mkhashch\_f\_20120927\_307.jpg



Levee Mile Report Line	21
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Deep vertical burrow in levee crown.

mkhashch\_f\_20120927\_309.jpg



**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	21
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Deep vertical burrow in ramp on land side of levee.

mkhashch\_f\_20120927\_310.jpg



Levee Mile Report Line	22
Start Levee Mile	0.95
End Levee Mile	0.95
Location	Water Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Old CMP left on waterside levee slope, needs to be removed.

mkhashch\_f\_20120927\_311.jpg



Levee Mile Report Line	23
Start Levee Mile	0.99
End Levee Mile	0.99
Location	Land Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Concrete and metal debris at landside toe needs to be removed.

mkhashch\_f\_20120927\_305.jpg



**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	25
Start Levee Mile	1.07
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree stump >2" left after vegetation and tree removal.

mkhashch\_f\_20120927\_306.jpg



Levee Mile Report Line	26
Start Levee Mile	1.10
End Levee Mile	1.10
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of water tanks disposed on waterside slope.

mkhashch\_f\_20120927\_299.jpg



Levee Mile Report Line	29
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo: boat and equipment stored within 10-ft of levee slope are an encroachment.

mkhashch\_f\_20120927\_300.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/14/2012 11/14/2012	Maksim Khashchuk

Levee Mile Report Line	29
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo: Buildings and patio decks are built within 10-ft of the levee slope.

mkhashch\_f\_20120927\_301.jpg



Levee Mile Report Line	30
Start Levee Mile	1.30
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Low hanging trees need to be trimmed up 12' over road.

mkhashch\_f\_20120927\_312.jpg



Levee Mile Report Line	30
Start Levee Mile	1.30
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of low hanging branches over levee crown.  
05/24/2012

mkhashch\_f\_20120927\_313.jpg



**\* Location**

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